

Wireless module - RAD-ISM-900-SET-BD-BUS-ANT-AU - 2867490

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



Bidirectional, wireless, 900 MHz transmission system (Australia), made up of 2 transceivers (transmitter and receiver) and two antennas with connecting cable

Your advantages

- ✓ Two omnidirectional antennas (optional)
- ✓ Additional transceivers can be added to configure repeater systems
- ✓ No additional parameterization or programming required
- ✓ Two pre-programmed transceivers that automatically communicate with each other
- ✓ Operates in the license-free 902 - 928 MHz ISM band
- ✓ Individual transceivers are listed under Class I, Division 2
- ✓ Each transceiver has 1 analog input (4 ... 20 mA) and 2 digital inputs (5 ... 30 V AC/DC), as well as 1 analog output and 2 digital outputs, for direct connection to compatible sensors and actuators and for data transmission in both directions
- ✓ The integrated bus foot enables connection to additional I/O modules
- ✓ Frequency hopping spread spectrum
- ✓ Status of the wireless connection via a relay (RF link)



Key Commercial Data

Packing unit	1 pc
GTIN	
GTIN	4046356046886

Technical data

Note

Trade restriction	The products are offered exclusively for export outside the EU and the European Economic Area.
-------------------	--

Dimensions

Width	22.5 mm
Height	99 mm
Depth	114.5 mm

Ambient conditions

Ambient temperature (operation)	-40 °C ... 70 °C
---------------------------------	------------------

Wireless module - RAD-ISM-900-SET-BD-BUS-ANT-AU - 2867490

Technical data

Ambient conditions

Ambient temperature (storage/transport)	-40 °C ... 85 °C
Degree of protection	IP20

Wireless set

Set contents	2 transceivers, 2 aerials
--------------	---------------------------

General

Mounting position	any
Assembly instructions	on standard DIN rail NS 35 in accordance with EN 60715
Housing material	Polyamide PA non-reinforced

Connection data

Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	4 mm ²
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	2.5 mm ²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	14
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3

Standards and Regulations

Electromagnetic compatibility	FCC Part 15.247
-------------------------------	-----------------

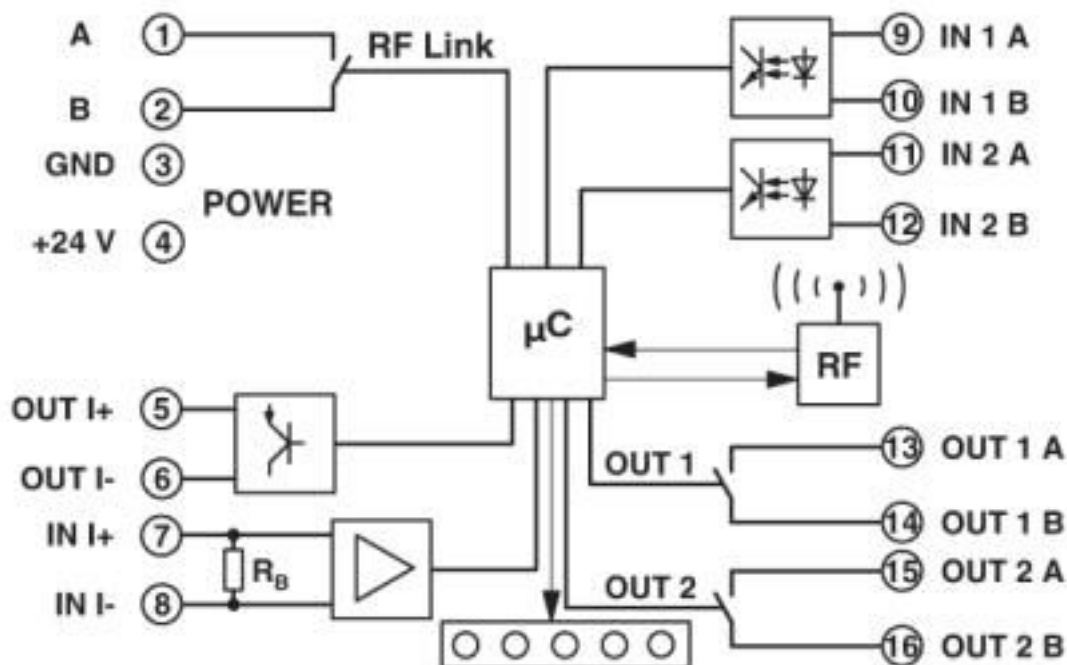
Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

Wireless module - RAD-ISM-900-SET-BD-BUS-ANT-AU - 2867490

Block diagram



Classifications

eCl@ss

eCl@ss 4.0	27250312
eCl@ss 4.1	27250312
eCl@ss 5.0	27242208
eCl@ss 5.1	27242208
eCl@ss 6.0	27242208
eCl@ss 7.0	27242208

ETIM

ETIM 2.0	EC000310
ETIM 3.0	EC000310
ETIM 4.0	EC000310
ETIM 5.0	EC000310
ETIM 6.0	EC000310

UNSPSC

UNSPSC 6.01	30211506
UNSPSC 7.0901	43223108
UNSPSC 11	39121008
UNSPSC 12.01	43223108
UNSPSC 13.2	43223108

Wireless module - RAD-ISM-900-SET-BD-BUS-ANT-AU - 2867490

Accessories

Accessories

Adapter cable

Antenna cable - RAD-CON-MCX-N-SB - 2867717



Antenna cable, outside diameter: 2.5 mm (0.1 in.), inner conductor: stranded, attenuation: 0.9 dB at 900 MHz, connection: MCX (male) -> N (female), cable length: 1.2 m (4 ft.)

Antenna cable - RAD-CON-SMA-N-SS - 2867403



Antenna cable, outside diameter: 2.5 mm (0.1 in.), inner conductor: stranded, attenuation: 0.9 dB at 900 MHz, connection: SMA (male) -> N (male), cable length: 1.2 m (4 ft.)

Antenna cable - RAD-CON-MCX-MCX-SS - 2867607



Antenna cable, outside diameter: 2.8 mm (0.11 in.), inner conductor: stranded, attenuation: 0.9 dB at 900 MHz, connection: MCX (male) -> MCX (male), cable length: 0.3 m (1 ft.)

Antenna cable - RAD-CON-MCX90-N-SS - 2885207



Antenna cable, outside diameter: 2.5 mm (0.1 in.), inner conductor: stranded, attenuation: 0.9 dB at 900 MHz, connection: 90° MCX (male) -> N (male), cable length: 1.2 m (4 ft.)

Antenna

Antenna - RAD-ISM-900-ANT-OMNI-5 - 2867199



Omnidirectional antenna, 900 MHz, gain: 7 dBi, polarization: linear, opening angle: h/v 360°/30°, degree of protection: IP65, connection: N (female), incl. mounting bracket and mast clips

Wireless module - RAD-ISM-900-SET-BD-BUS-ANT-AU - 2867490

Accessories

Antenna - RAD-ISM-900-ANT-OMNI-FG-3-N - 2867791

Omnidirectional antenna, 900 MHz, gain: 5 dBi, polarization: linear, opening angle: h/v 360°/28°, degree of protection: IP65, connection: N (female), incl. mounting bracket and mast clips



Antenna - RAD-ISM-900-ANT-YAGI-3-N - 2867801

Directional antenna, 868 MHz / 900 MHz, gain: 5 dBi, polarization: linear, opening angle: h/v 168°/78°, degree of protection: IP65, connection: N (female), incl. mounting bracket and mast clips



Antenna - RAD-ISM-900-ANT-YAGI-6.5-N - 2867814

Directional antenna, 868 MHz / 900 MHz, gain: 8.5 dBi, polarization: linear, opening angle: h/v 100°/62°, degree of protection: IP65, connection: N (female), incl. mounting bracket and mast clips



Antenna - RAD-ISM-900-ANT-YAGI-6.5-25-AS - 2867827

Panel antenna with surge protection, adapter cable MCX->N and assembly material, IP65 protection, gain 8.5 dBi, cable length 7.6 m, connection N (female)



Antenna - RAD-ISM-900-ANT-YAGI-6.5-50-AS - 2867830

Panel antenna with surge protection, adapter cable MCX->N and assembly material, IP65 protection, gain 8.5 dBi, cable length 15.2 m, connection N (female)



Wireless module - RAD-ISM-900-SET-BD-BUS-ANT-AU - 2867490

Accessories

Antenna - RAD-ISM-900-ANT-OMNI-0-6 - 2867160



Omnidirectional antenna, 900 MHz, gain: 2 dBi, polarization: linear, opening angle: h 360°, degree of protection: IP65, connection: MCX (male), incl. 2 m / 6.5 ft. connecting cable and mounting bracket for wall mounting

Antenna - RAD-ISM-900-ANT-OMNI-FG-6-N - 2885579



Omnidirectional antenna, 900 MHz, gain: 8 dBi, polarization: linear, opening angle: h/v 360°/15°, degree of protection: IP65, connection: N (female), incl. mounting bracket and mast clips

Coaxial adapter

Antenna splitter - RAD-ISM-900-ANT-4 - 2867050



4-way distributor for antenna signals (antenna splitter), MCX connection (female)

Coaxial cable

Antenna cable - RAD-CAB-RG58-10 - 2867364



Antenna extension cable, length: 10 ft

Antenna cable - RAD-CAB-RG58-20 - 2867212



Antenna extension cable, length: 20 ft

Wireless module - RAD-ISM-900-SET-BD-BUS-ANT-AU - 2867490

Accessories

Antenna cable - RAD-CAB-RG213-25 - 2867597



Antenna extension cable, length: 25 ft

Antenna cable - RAD-CAB-RG213-40 - 2867377



Antenna cable, outside diameter: 10 mm (0.4 in.), inner conductor: solid, attenuation: 2.9 dB at 900 MHz, connection: 2 x N (male), cable length: 12 m (40 ft.)

Antenna cable - RAD-CAB-RG213-50 - 2867225



Antenna cable, outside diameter: 10 mm (0.4 in.), inner conductor: solid, attenuation: 3.5 dB at 900 MHz, connection: 2 x N (male), cable length: 15 m (50 ft.)

Antenna cable - RAD-CAB-PFP400-60 - 2867380



Antenna cable, outside diameter: 10 mm (0.4 in.), inner conductor: solid, attenuation: 2.5 / 4.2 / 6.3 dB at 0.9 / 2.4 / 5.8 GHz, connection: 2x N (male), cable length: 18 m (60 ft.)

Antenna cable - RAD-CAB-PFP400-80 - 2867393



Antenna cable, outside diameter: 10 mm (0.4 in.), inner conductor: solid, attenuation: 3.3 / 5.6 / 8.4 dB at 0.9 / 2.4 / 5.8 GHz, connection: 2x N (male), cable length: 24 m (80 ft.)

Wireless module - RAD-ISM-900-SET-BD-BUS-ANT-AU - 2867490

Accessories

Antenna cable - RAD-CAB-PFP400-100 - 2867238



Antenna cable, outside diameter: 10 mm (0.4 in.), inner conductor: solid, attenuation: 4.1 / 6.9 / 10.4 dB at 0.9 / 2.4 / 5.8 GHz, connection: 2x N (male), cable length: 30 m (100 ft.)

Antenna cable - RAD-CAB-LMR600-125 - 2885210



Antenna extension cable, length: 125 ft

Antenna cable - RAD-CAB-PFP600-150 - 2885184



Antenna cable, outside diameter: 15 mm (0.6 in.), inner conductor: solid, attenuation: 3.9 / 6.8 / 10.4 dB at 0.9 / 2.4 / 5.8 GHz, connection: 2x N (male), cable length: 45 m (150 ft.)

Antenna cable - RAD-CAB-PFP900-200 - 2885197



Antenna extension cable, length: 200 ft

Extension module

Extension module - RAD-IN-4A-I - 2867115



Analog extension module with 4 analog current inputs 4 mA ... 20 mA

Wireless module - RAD-ISM-900-SET-BD-BUS-ANT-AU - 2867490

Accessories

Extension module - RAD-OUT-4A-I - 2867128



Analog extension module with 4 analog current outputs 4 mA ... 20mA

Extension module - RAD-IN-8D - 2867144



Digital extension module with 8 digital inputs

Extension module - RAD-OUT-8D-REL - 2867157



Digital extension module with 8 digital outputs

Extension module - RAD-IN+OUT-2D-1A-I - 2867322



Analog /digital module for 2 digital inputs/outputs and 1 analog input/output

Extension module - RAD-IN-2D-CNT - 2885223



Digital extension module with 2 digital inputs for measuring pulses and frequencies

Wireless module - RAD-ISM-900-SET-BD-BUS-ANT-AU - 2867490

Accessories

Extension module - RAD-OUT-2D-CNT - 2885236



Digital extension module with 2 digital outputs for output of pulses and frequencies

Phoenix Contact 2020 © - all rights reserved
<http://www.phoenixcontact.com>

PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstr. 8
32825 Blomberg
Germany
Tel. +49 5235 300
Fax +49 5235 3 41200
<http://www.phoenixcontact.com>

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Phoenix Contact:](#)

[2867490](#)